

Additional file 2. Clinical and biological variables during the second spontaneous breathing trial (SBT)

| | All patients (n=208) | Second SBT | | | p |
|--|-------------------------|-------------------|--------------------|--------|---|
| | | Success (n=76) | Failure (n=132) | | |
| <i>Clinical variables</i> | | | | | |
| Respiratory rate at the beginning | 27 (22-31) | 26 (21-31) | 27 (23-32) | 0.108 | |
| Respiratory rate at the end | 34 (28-40) | 29 (24-33) | 39 (32-42) | <0.001 | |
| SpO ₂ at the beginning, % | 97 (95-98) | 97 (95-98) | 96 (94-98) | 0.011 | |
| SpO ₂ at the end, % | 94 (91-97) | 96 (93-98) | 93 (89-96) | <0.001 | |
| Heart rate at the beginning, beats/min | 91 (80-105) | 91 (81-105) | 90 (79-104) | 0.501 | |
| Heart rate at the end, beats/min | 99 (85-112) | 97 (82-108) | 100 (87-114) | 0.145 | |
| Systolic blood pressure at the beginning, mmHg | 134 (121-150) | 134 (124-150) | 135 (119-150) | 0.495 | |
| Systolic blood pressure at the end, mmHg | 141 (125-163) | 136 (122-150) | 148 (126-173) | 0.002 | |
| <i>Biological variables</i> | | | | | |
| PaO ₂ /FiO ₂ at the beginning | 247 (207-302) | 252 (215-303) | 241 (202-300) | 0.185 | |
| PaO ₂ /FiO ₂ at the end | 168 (121-214) | 184 (142-222) | 165 (114-206) | 0.020 | |
| PaCO ₂ at the beginning, mmHg | 40 (34-46) | 38 (33-43) | 41 (36-47) | 0.003 | |
| PaCO ₂ at the end, mmHg | 42 (36-49) | 39 (35-47) | 43 (37-52) | 0.017 | |
| HCO ₃ ⁻ at the beginning, mmol/l | 29 (25-32) | 28 (25-31) | 29 (25-33) | 0.167 | |
| HCO ₃ ⁻ at the end, mmol/l | 29 (25-33) | 29 (25-31) | 29 (26-34) | 0.293 | |
| Lactate at the beginning, mmol/l | 0.9 (0.7-1.2) | 1.0 (0.7-1.4) | 0.9 (0.7-1.2) | 0.342 | |
| Lactate at the end, mmol/l | 1.0 (0.6-1.4) | 0.8 (0.7-1.3) | 1 (0.6-1.4) | 0.464 | |
| Troponin T at the beginning, ng/l | 53 (23-134) | 47 (21-138) | 54 (24-134) | 0.497 | |
| Troponin T at the end, ng/l | 52 (24-151) | 47 (21-165) | 53 (25-147) | 0.546 | |
| (Troponin T at the beginning <14 ng/ml and Δ Troponin T > 50%) or (Troponin T ≥ 14 ng/ml and Δ Troponin T > 20%) or Δ Troponin I > 20% | 3 (1.4) | 1 (1.3) | 2 (1.5) | >0.99 | |
| NTpro-BNP at the beginning, ng/l | 1089 (379-4032) | 1356 (293-3856) | 1077 (420-4058) | 0.790 | |
| NTpro-BNP at the end, ng/l | 1111 (438-4034) | 1111 (321-3914) | 1090 (463-4182) | 0.679 | |
| Protein at the beginning, g/l | 59 (54-66) | 58 (53-66) | 60 (54-65) | 0.625 | |
| Protein at the end, g/l | 61 (56-68) | 60 (53-68) | 61 (57-67) | 0.395 | |

SBT Spontaneous breathing trial, NTpro-BNP amino terminal pro-brain natriuretic peptide

Data are expressed as number (percentage) for categorical variables or median (1st quartile- 3rd quartile) for continuous variables.